

Base map: USGS, State of Alaska, Map

<b>KENT &amp; SULLIVAN, INC.</b>	~Ross Adams Uranium Mine PA/Sl~	Figure 1
Proj. No: 25-10 File: S\125-10\Fig1 Location.ppt	U.S.D.A. Forest Service, Alaska Region	Site Location Map





Base map: USDA Forest Service, Prince of Wales Island Road Guide



Scale



## Southern Prince of Wales Island Map

~Ross Adams Uranium Mine PA/SI~

U.S.D.A. FOREST SERVICE, ALASKA REGION

Date: 9/29/2004

Drawn by: BKJ

FIGURE

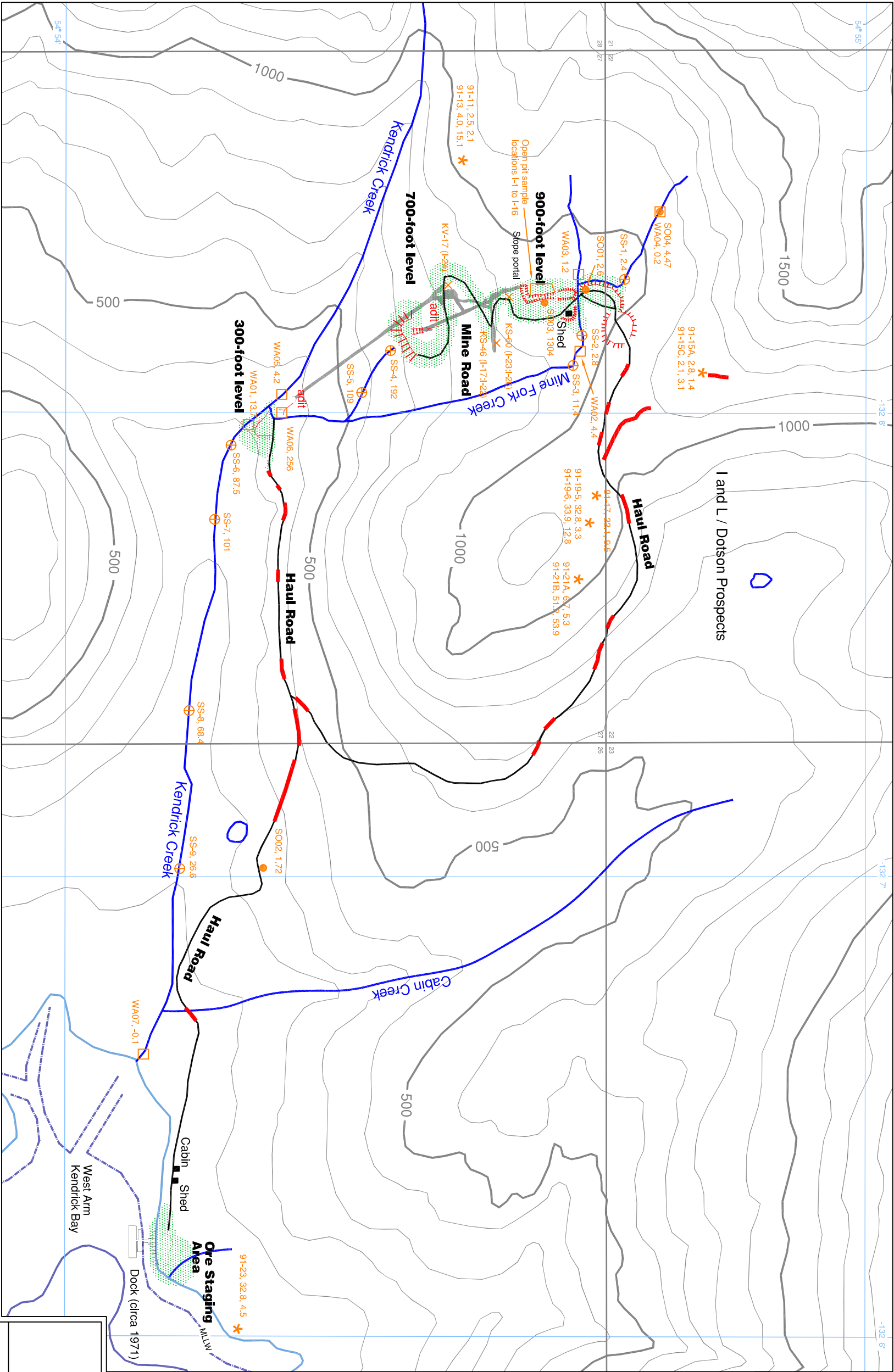
Proj. No.: 25-10

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File: 25-10\figures\Fig2 Wales Island Map

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- EXPLANATION
- Creek

Elevation contour (contour interval = 100 feet)

Depth contour (contour interval = 10 fathoms)

Mean lower low water contour

Mean high water contour

Road

Adit and waste rock dump

Gamma radiation levels greater than 100µR/hr

Greater than 100 µR/hr on road

Approximate underground workings

SO01, 2.6  
Approximate rock sample location; uranium pCi/g (BLM, 1998)

WA01, 13.7  
Approximate surface water sample location; gross alpha pCi/L (BLM, 1998)

91-213, 51.2, 53.9  
Approximate rock sample location; uranium, thorium pCi/g (Philpotts, et al, 1998)

KS-60 (I-23: 126)  
Approximate drill hole location; core sample number (Warner and Barker, 1989)

SS-7, 101  
Approximate stream sediment sample location; uranium pCi/g (Eakins, 1970)

Site Base Map and Previous Sample Locations

~Ross Adams Uranium Mine PA/Sl~

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Date: 12/15/2003

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File: 25-10 (figures) Fig3 previous locations

Base maps: Dixon Entrance D-1 (1948, 1:63,360, NAD27)  
South End of Prince of Wales Island (NOAA Chart 17433, NAD83)

Note: For Philpotts et al (1998), Warner and Barker (1998) and Eakins (1970) data, uranium mass concentrations were converted to activities assuming natural isotope ratios and thorium mass concentrations were converted to activities assuming 100% Th-232.

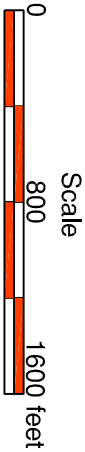
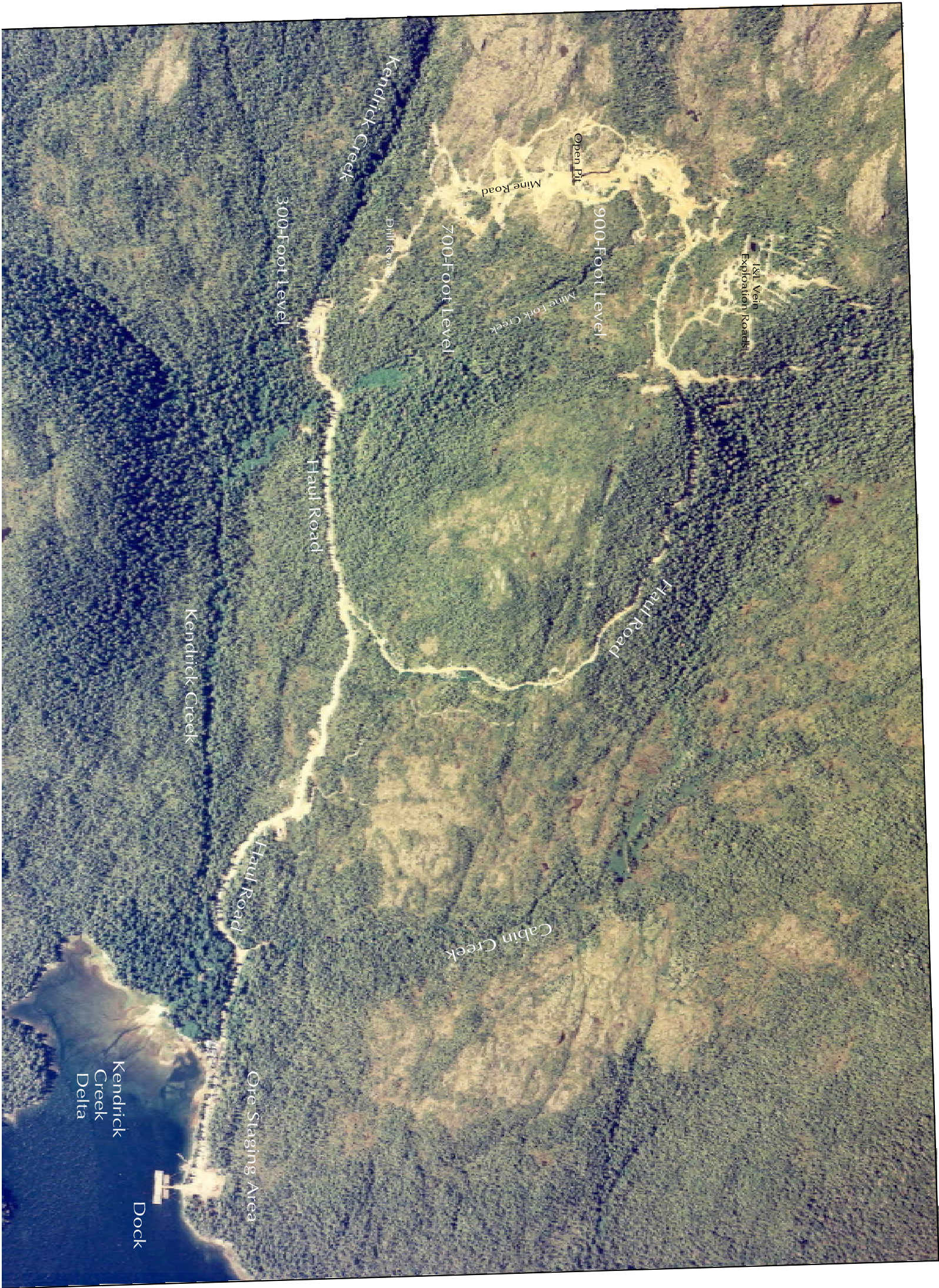


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# 1971 Aerial Photograph

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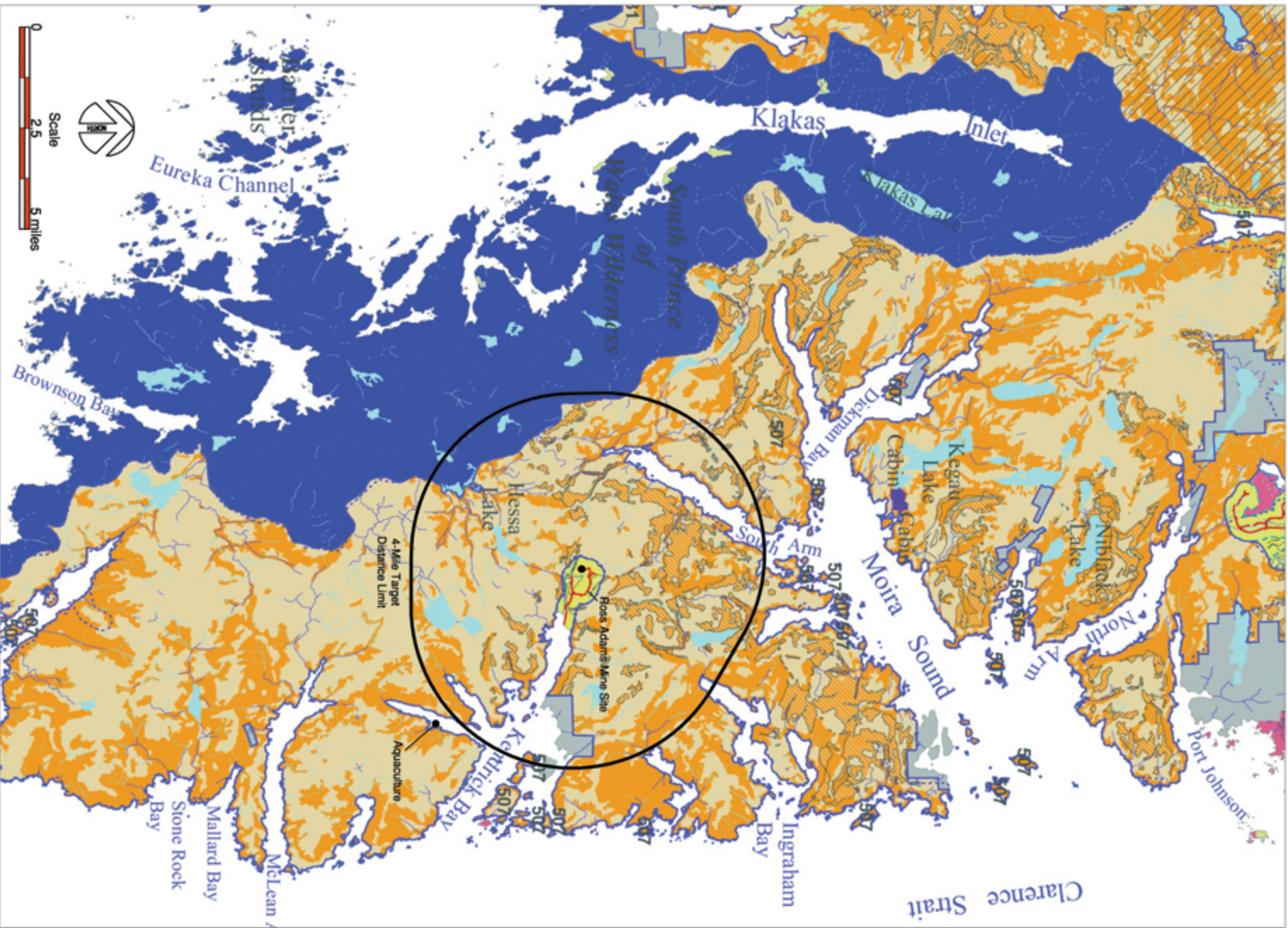
Date: 12/15/2003	Drawn by: BKJ
Proj. No.: 25-10	Checked by:
File: 25-10\figures\fig5 aerial 1971	

FIGURE

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Source: Tongass Land Management Plan Revision, Supplemental Environmental Impact Statement, Roadsless Area Evaluation for Wilderness Recommendations (www.tongass.sas.net)

# EXPLANATION

- Stream
- Lakes
- Cabin
- Roadless Area
- Roads
- Inventoried Roadsless Area
- Unroaded Area < 1,000 acres
- Developed Area
- Non-National Forest System Land
- Wilderness
- Land Use Designation Area (USFS management unit)
- Productive Old Growth Forest
- Mapped Suitable Timber

## Surrounding Land Use Map

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Date: 1/28/2004  
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 File: 25-10\figures\Fig6 land use

FIGURE

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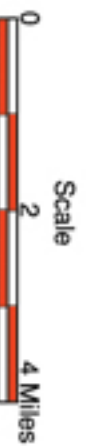




Base map: USDA Forest Service, Prince of Wales Island Road Guide.  
Wetlands from NWM Dioxin Emissions D-1.  
Anadromous fish streams from ADFG Fish Distribution Viewer (gis.adfg.state.ak.us/nwc\_jmViewer.htm)

### EXPLANATION

- National Forest land
- Wilderness area
- State and private land
- Wetlands, primarily palustrine
- 4-mile target distance limit - air pathway
- 15-mile target distance limit - surface water pathway
- Anadromous fish stream and/or drainage within target distance limits



## Wetlands and Target Distance Limit Map

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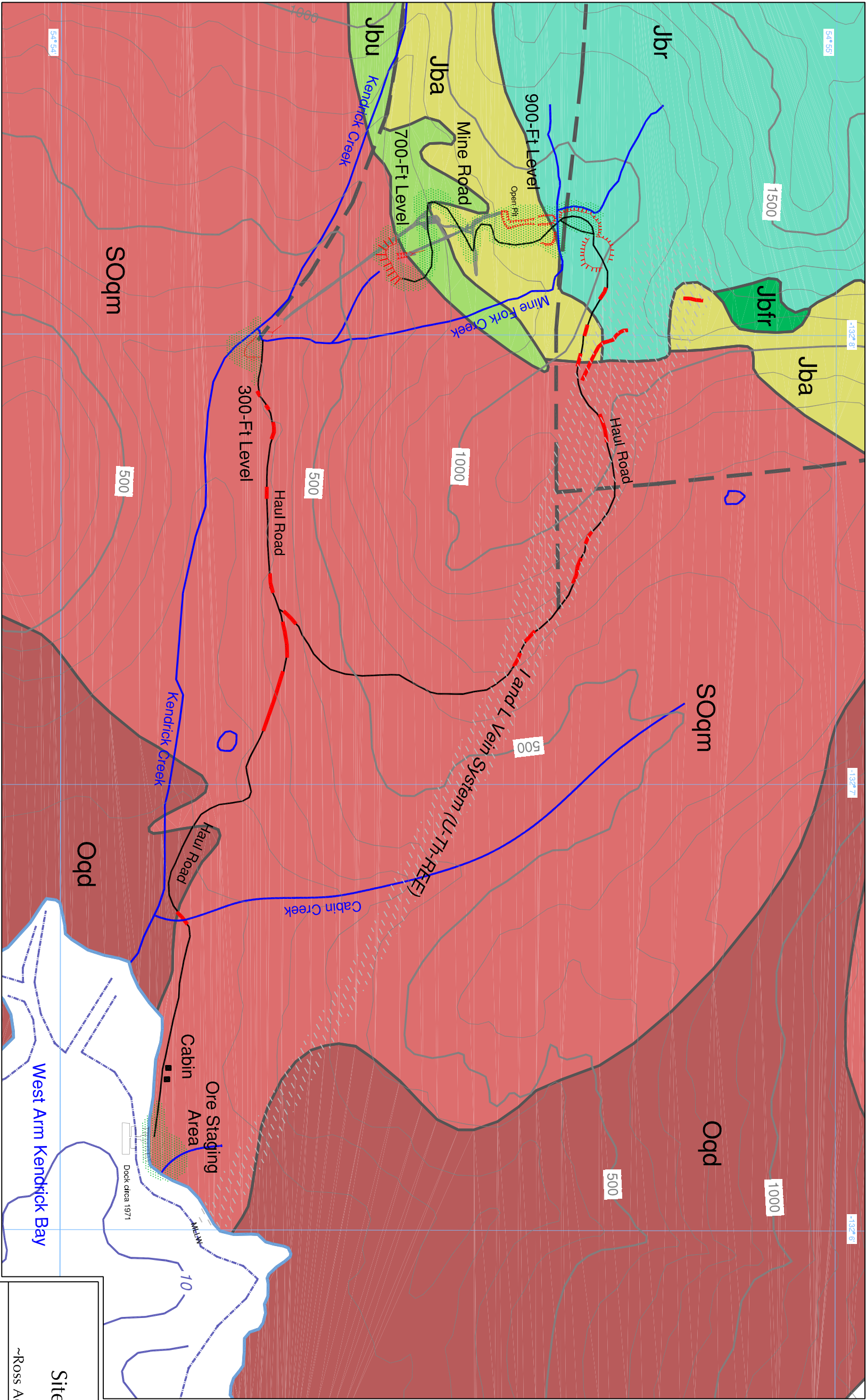
File: 25-10\Figures\Fig7 Wetlands

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FIGURE

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Base maps: Dixon Entrance D-1 (1948, 1:63,360, NAD27)  
South End of Prince of Wales Island (NOAA Chart 17433, NAD83)  
Gehrels, G.E., 1992, Geologic map of Southern Prince of Wales Island, Southeastern Alaska, USGS Misc. Investigations Map I-2169.



EXPLANATION

- Creek
- Elevation contour (interval = 100 ft)
- Depth contour (interval = 10 fathoms)
- Mean lower low water contour
- Mean high water contour
- Road
- Greater than 100  $\mu\text{R/hr}$
- Greater than 100  $\mu\text{R/hr}$  on road
- Adit and waste rock dump
- Bokan Mountain Granite (Jurassic)
- Jbr Riebeckite granite porphyry
- Jba Aegirine granite porphyry
- Jbfr Fine-grained riebeckite granite porphyry
- Jbu Undivided granite, apfite and pegmatite
- SOqm Quartz Monzonite (Silurian-Ordovician)
- Oqd Quartz Diorite (Ordovician)
- Fault
- Approximate underground workings

Site Geologic Map

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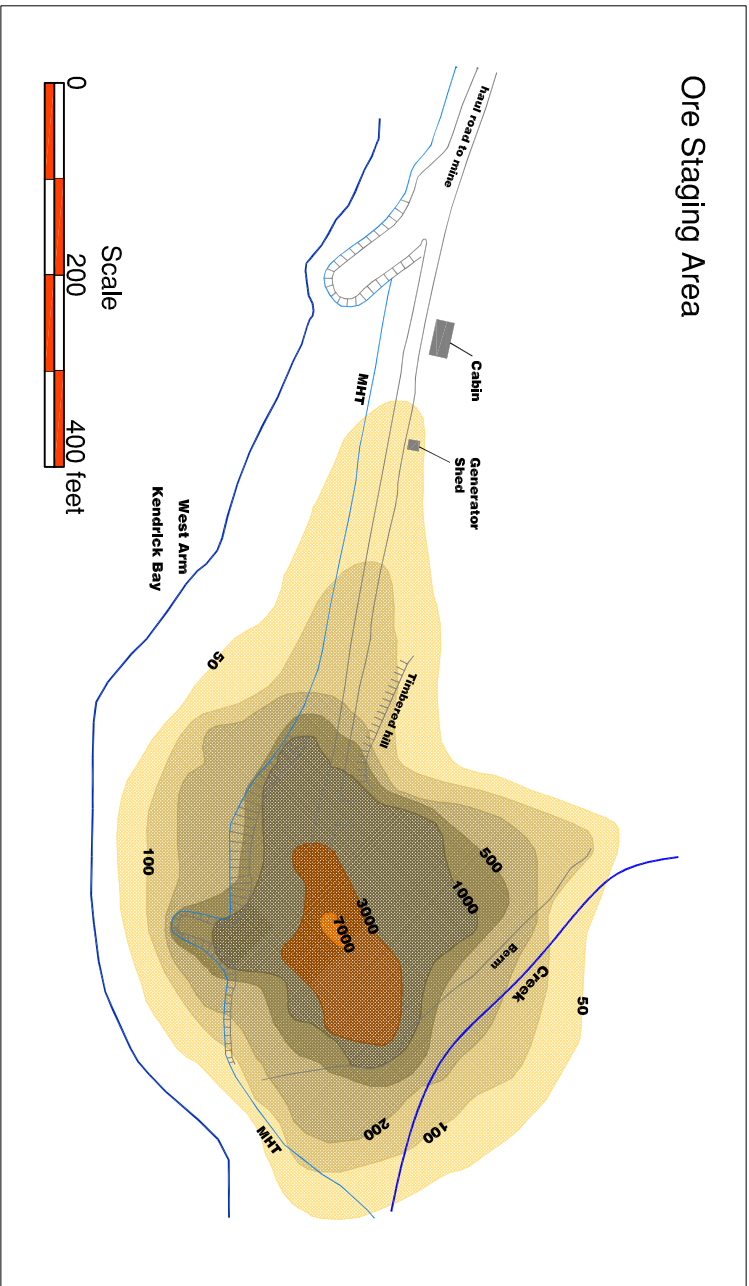
File: 25-10\figures\fig8 Geologic map

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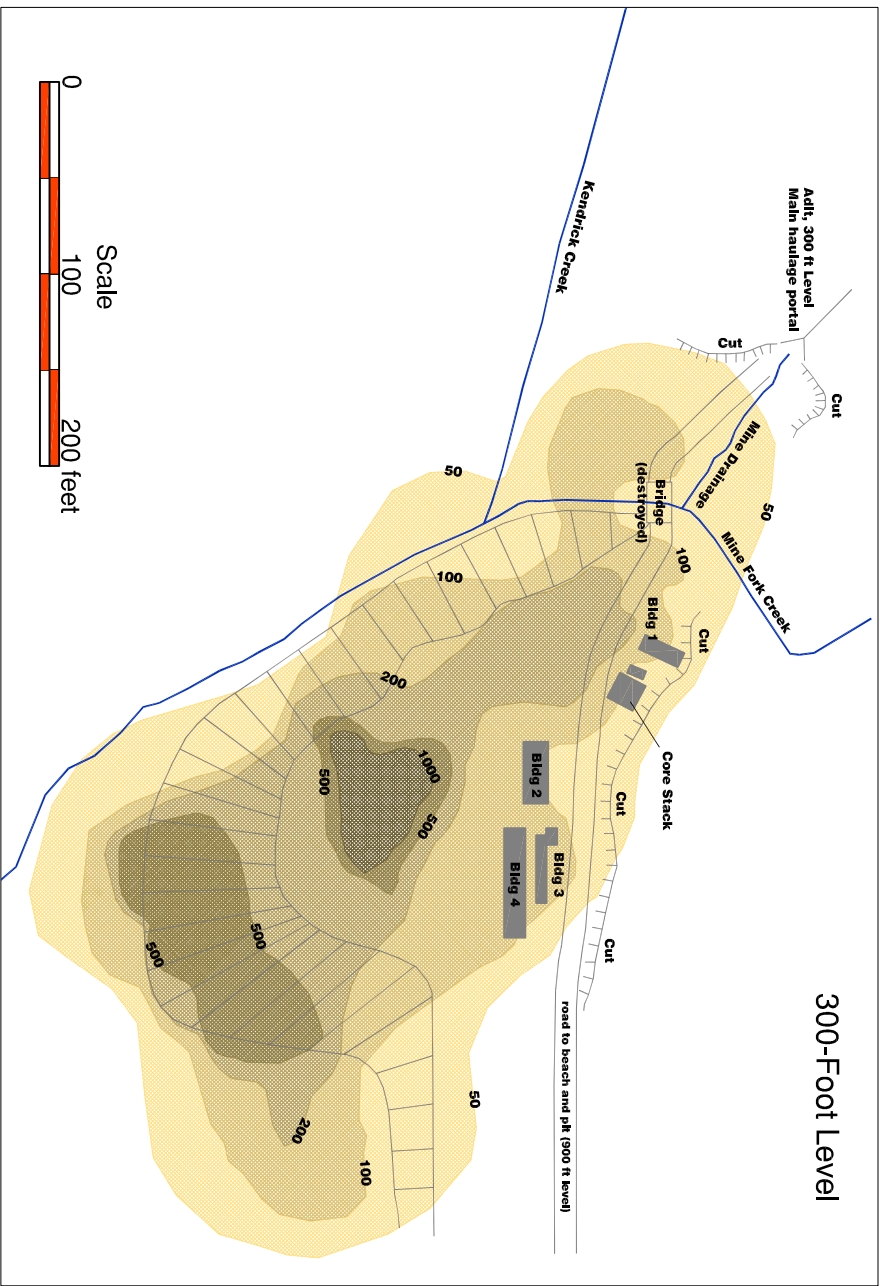
FIGURE

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BLM, 1998, Figure 3

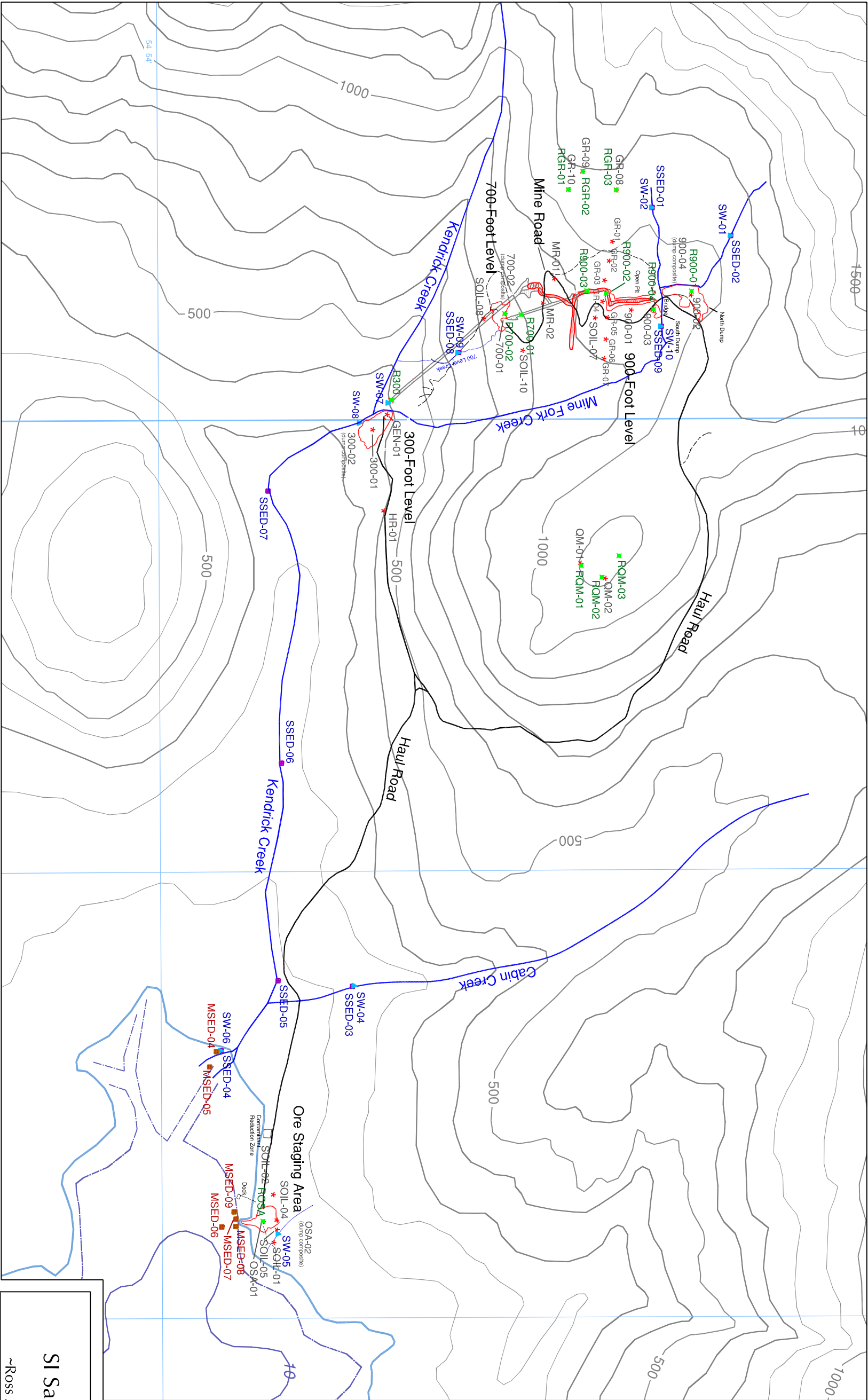


BLM, 1998, Figure 4



BLM, 1998, Figure 5

Gamma Ray Radiation Survey Maps		
~Ross Adams Uranium Mine PA/SI~		
U.S.D.A. FOREST SERVICE, ALASKA REGION		
Date: 1/14/2004	Drawn by: BKJ	FIGURE  9
Proj. No.: 25-10	Checked by:	
File: S:\25-10\Fig\fig9 radiation survey		
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EXPLANATION

- Creek
- Elevation contour (contour interval = 100 feet)
- Depth contour (contour interval = 10 fathoms)
- Mean lower low water contour
- Mean high water contour
- Haul road and mine road
- Drill roads and other minor roads
- Waste rock dump
- Approximate underground workings
- Approximate ore body extent
- 700-01 \* Rock sample location
- SOIL-02 \* Soil sample location
- SSED-07 Stream sediment sample location
- MSEB-04 Marine sediment sample location
- SW-09 Water sample location
- R900-03 Radon detector location

SI Sample Location Map

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Proj. No.: 25-10  
File: 25-10\figures\Base map site.dwg

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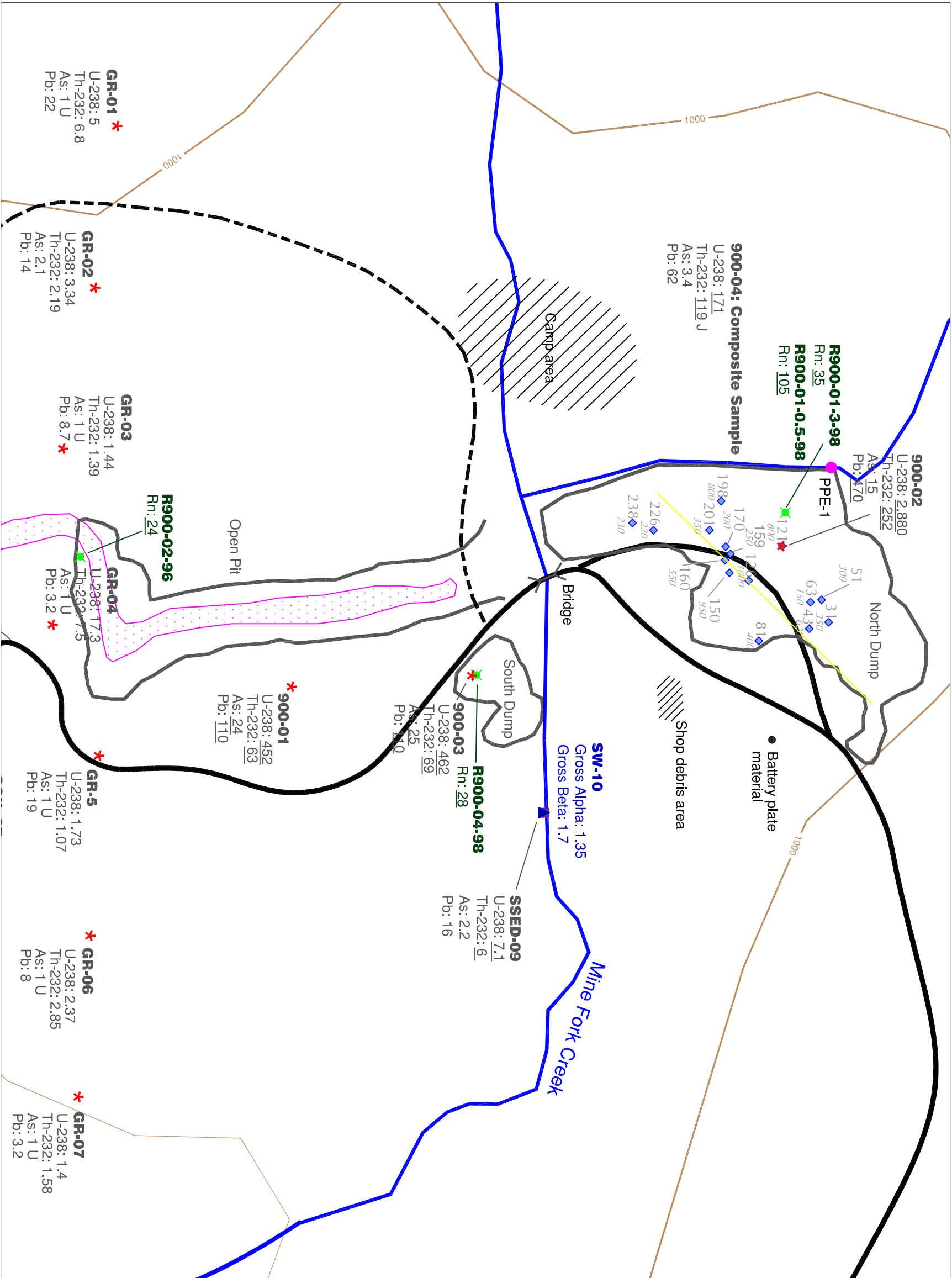
FIGURE

10









- EXPLANATION**
- Creek
  - Elevation contour (contour interval = 100 feet)
  - Haul road and mine road
  - Drill roads and other minor roads
  - Waste rock dump
  - Ore body extent
  - Rock sample location (discrete)

- Stream sediment sample location
- Water sample location
- Radon detector location
- Composite sub-sample location, gamma radiation at 3 feet agl shown ( $\mu\text{R/hr}$ )
- Composite sample grid baseline
- Probable point of entry to surface water pathway

**Posted Sample Results**

Rn	Radon, pCi/L
U-238	Isotopic U-238, pCi/g
Th-232	Isotopic Th-232, pCi/g
As	Arsenic, mg/kg
Pb	Lead, mg/kg
U	Total Uranium, mg/kg ( $\mu\text{g/L}$ in water)
U-238: 452	Undertlined values exceed background reference

Sample Location Map:  
900-Foot Level

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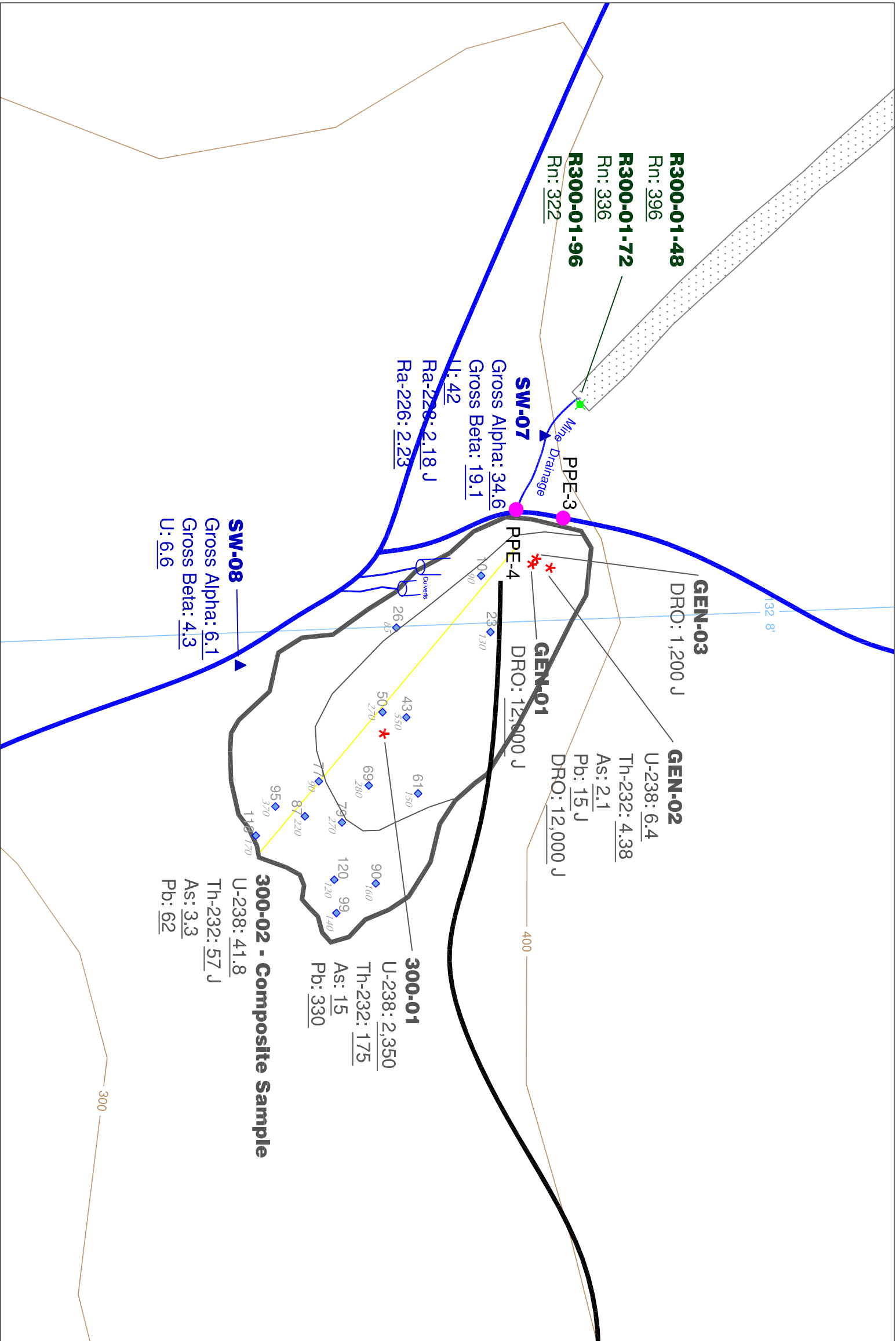
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Proj. No.: 25-10 Checked by:  
File: 25-10 (figures)\Base map areas.dwg

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EXPLANATION

- Creek
- Elevation contour (contour interval = 100 feet)
- Haul road road
- Waste rock dump extent
- Underground workings
- OSA-01 Rock sample location (discrete)
- SOIL-02 Soil sample location
- SW-09 Water sample location
- R900-03 Radon detector location
- Composite sub-sample location, gamma radiation at 3 feet agl shown ( $\mu\text{R/hr}$ )
- Composite sample grid baseline
- PPE-3 Probable point of entry to surface water pathway

Posted Sample Results

Rn Radon, pCi/L  
U-238 Isotopic U-238, pCi/g  
Th-232 Isotopic Th-232, pCi/g  
As Arsenic, mg/kg  
Pb Lead, mg/kg  
U Total Uranium,  $\mu\text{g/L}$   
Ra-228 Isotopic Ra-228,  $\mu\text{g/L}$   
Ra-226 Isotopic Ra-226,  $\mu\text{g/L}$   
DRO Diesel-Range Organics, mg/kg  
Th-232: 175 Underlined values exceed background reference

Sample Location Map:  
300-Foot Level

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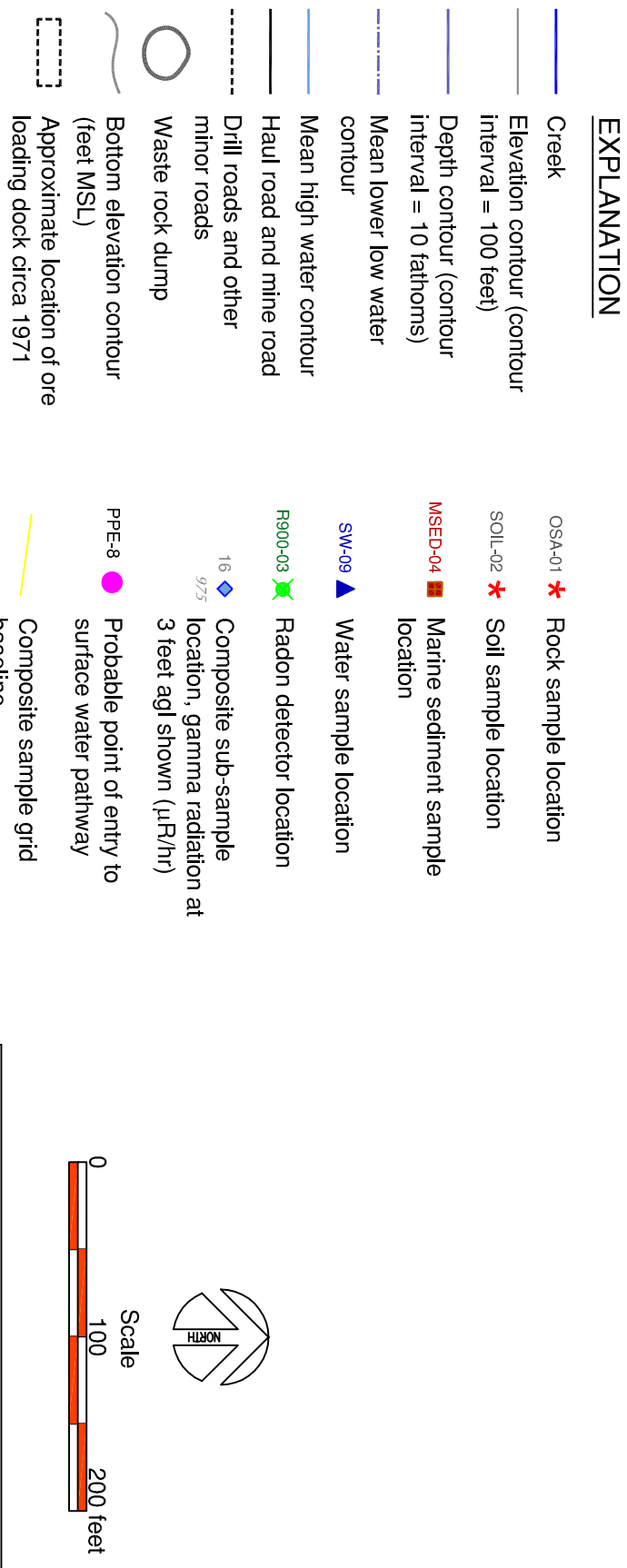
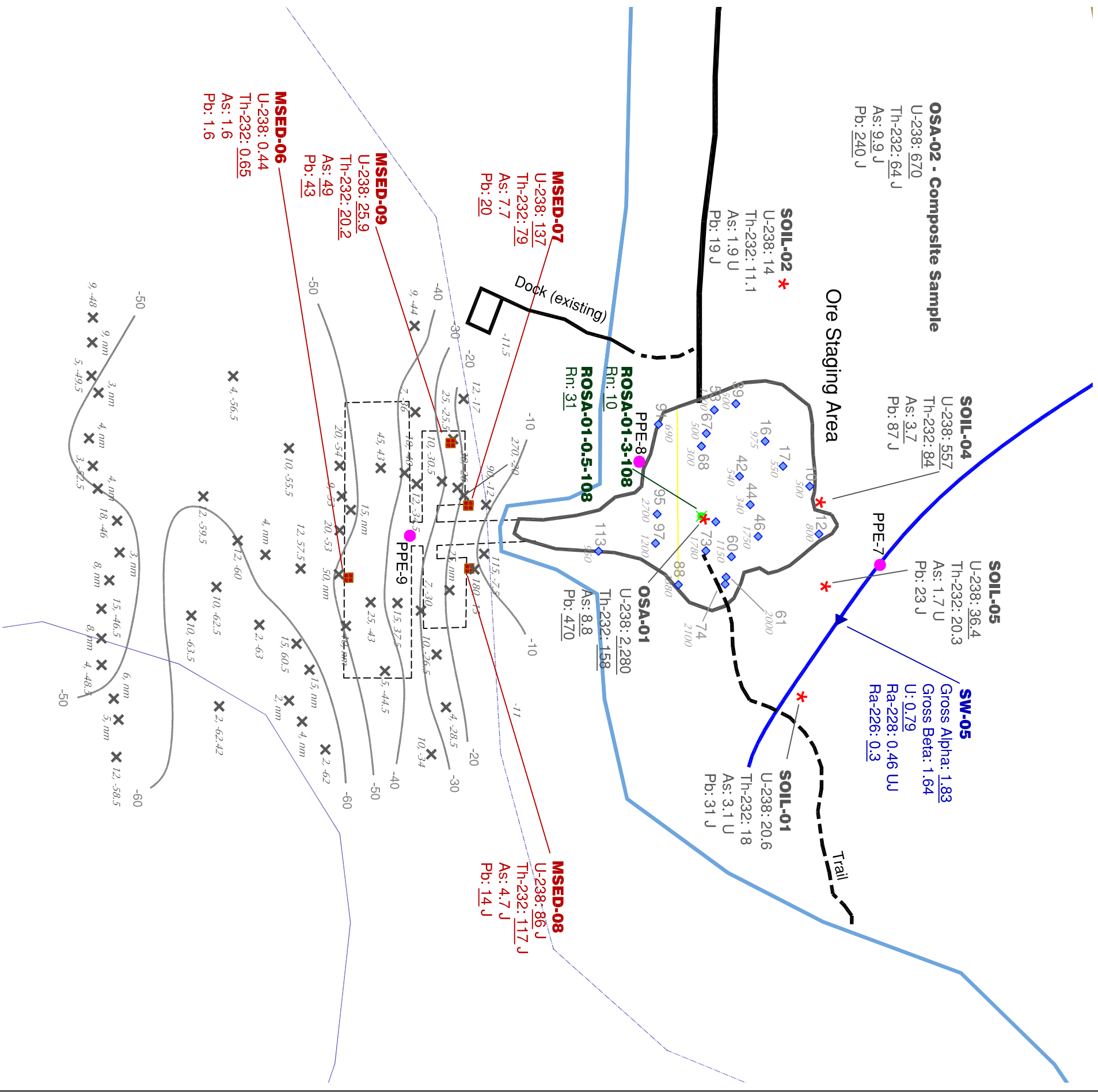
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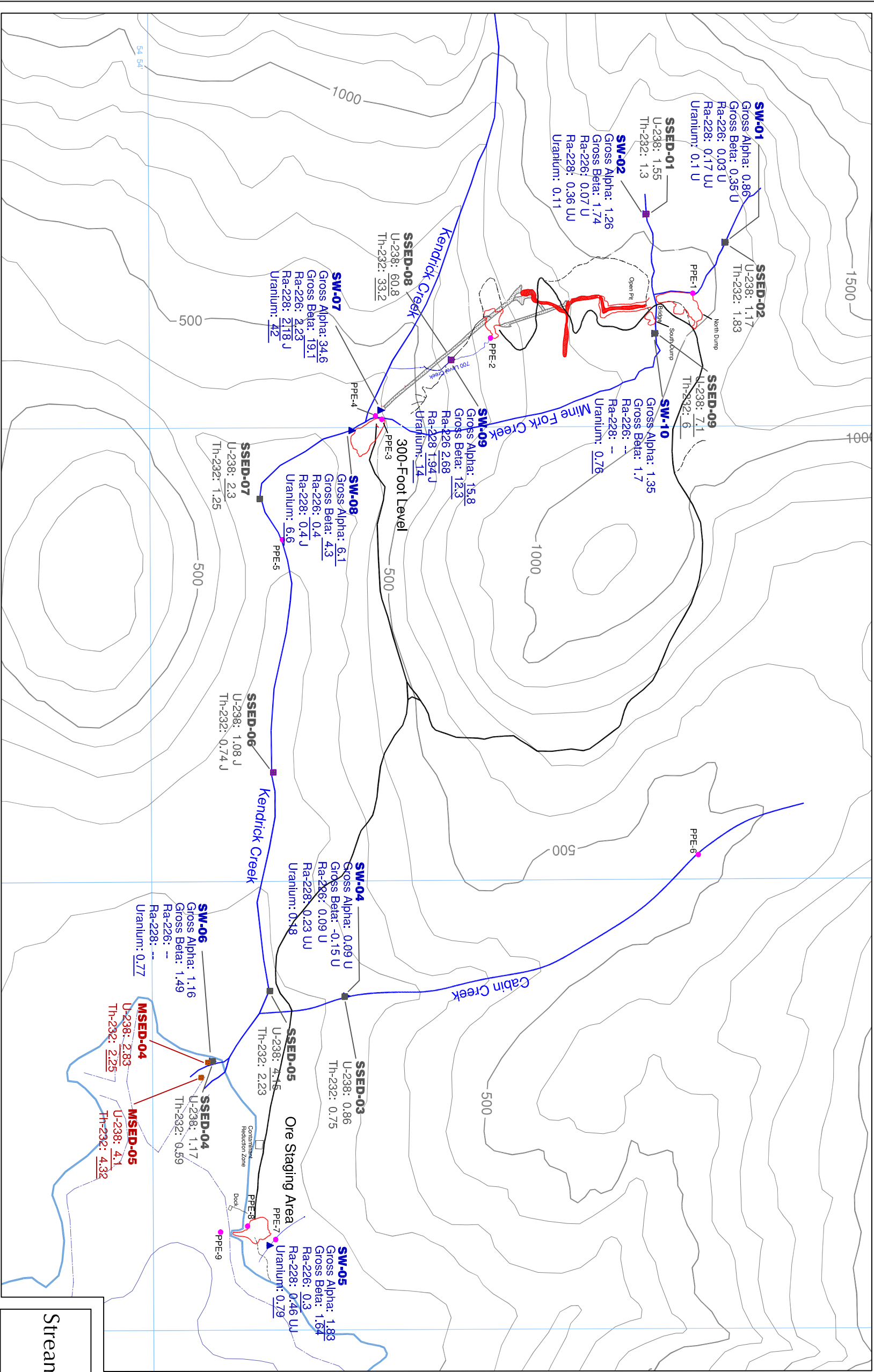
Date: 10/4/2004	Drawn by: BKJ	FIGURE <b>14</b>
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File: 25-10\figures\Base map areas.dwg		

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EXPLANATION

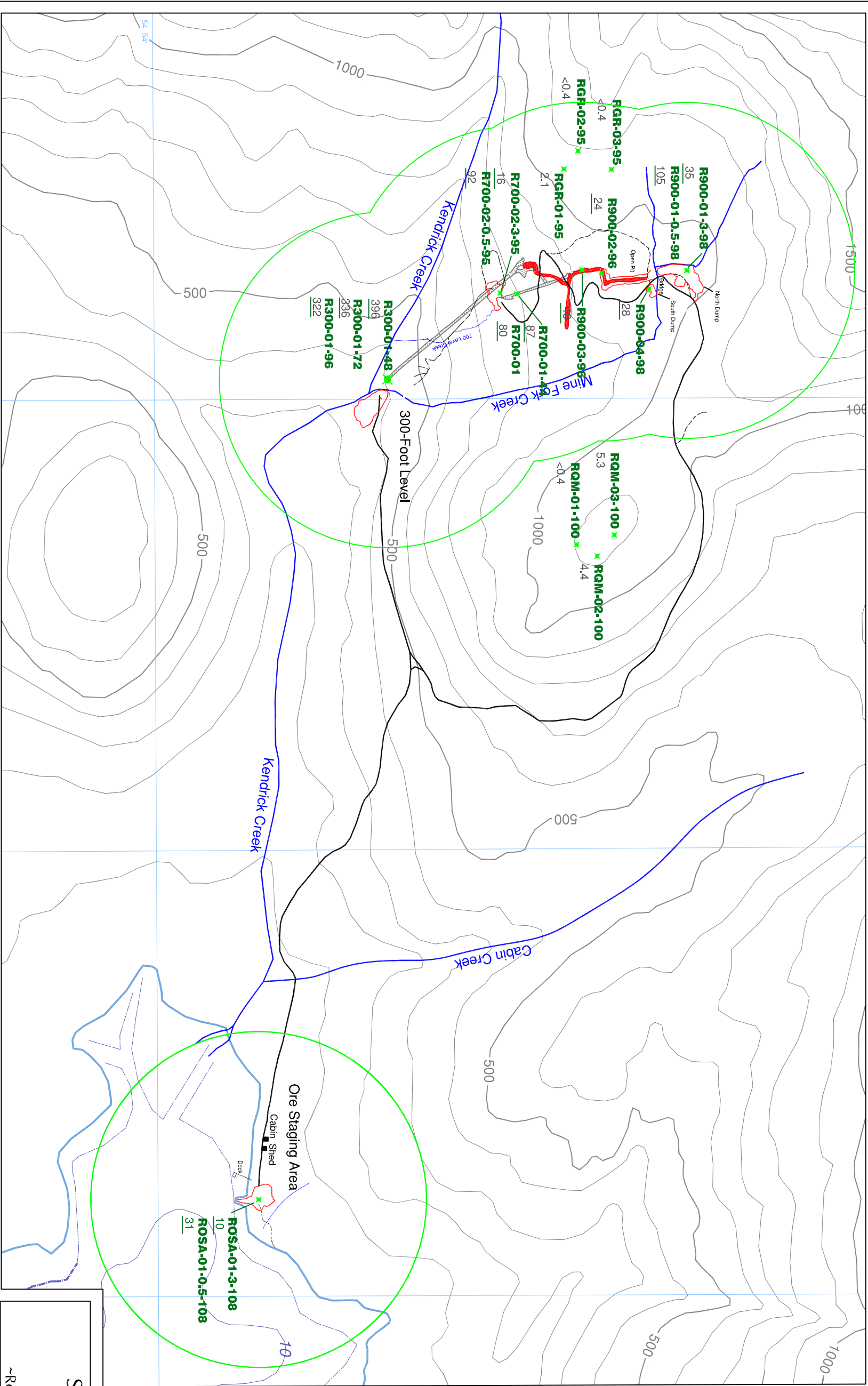
- Creek
- Elevation contour (contour interval = 100 feet)
- Depth contour (contour interval = 10 fathoms)
- Mean lower low water contour
- Mean high water contour
- Haul road and mine road
- Drill roads and other minor roads
- Waste rock dump
- Approximate underground workings
- Approximate ore body extent
- Stream sediment sample location and selected isotope activities (pCi/g)
- MSEd-04** ■ U-238 Th-232 Marine sediment sample location and selected isotope activities (pCi/g)
- SW-09** ▲ Gross Alpha Gross Beta Ra-226 Ra-228 Uranium (µg/L) Water sample location and selected activities (pCi/L) and uranium concentration (µg/L)
- Underlined values exceed background reference
- PPE-4 ● Probable point of entry to surface water pathway

Sample Results Map:  
Stream Sediment and Surface Water

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EXPLANATION

- Creek
- Elevation contour (contour interval = 100 feet)
- Depth contour (contour interval = 10 fathoms)
- Mean lower low water contour
- Mean high water contour
- Haul road and mine road
- Drill roads and other minor roads
- Waste rock dump
- Approximate underground workings
- Approximate ore body extent
- Radon detector location  
Radon activity (pCi/L)  
0.25-mile distance category limit
- Underlined values exceed background reference

Sample Results Map:  
Radon in Air

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FIGURE

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